

DII.3200.Sol251.Kernel.VDD-1

**Defense Information Infrastructure (DII)
Common Operating Environment (COE)**

Version 3.2.0.0

**Version Description Document for the Kernel
(Solaris 2.5.1)**

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NOTE: Courier font is used to indicate entries to be typed at the keyboard, operating system commands, file and directory names, and screen text. For example:

The file is located in the `DII_DEV` directory.

1. System Overview

The Defense Information Infrastructure (DII) Common Operating Environment (COE) will normally make available a large number of segments, not all of which are required for every application. The DII COE kernel is the minimum set of software required on every workstation regardless of how the workstation will be used. These components include the operating system and windowing services, as well as external environment interfaces. The DII COE kernel for Solaris 2.5.1 includes the following components:

- ⌘ Operating System (installed before the DII COE kernel)
- ⌘ System Administration function
- ⌘ Security Administration function
- ⌘ Runtime tools
- ⌘ Commercial Off-the-Shelf (COTS) software (windowing environment)
- ⌘ Government Off-the-Shelf (GOTS) software.

These components can be broken down into the following features:

Operating System

Solaris 2.5.1 Operating System, including HP Common Desktop Environment (CDE). Refer to the *DII COE Kernel Installation Guide (Solaris 2.5.1)* for information about installing the Solaris 2.5.1 Operating System.

System Administration Function

The System Administration function is used to provide the capability to configure, manage, and use printer services from a DII workstation; close windows; reboot or shut down the system, mount file systems, and format hard drives; load or install segments, including distributions; and change machine ID, set system time, configure a workstation as either a DNS client or a server, set routing configuration, and configure Network Information Service (NIS+). The system administrator's account group sets the system administrator's environment to execute the functions listed above. Refer to the *DII COE System Administrator's Guide (Solaris 2.5.1)* for more information about system administration functionality.

Security Administration Function

The Security Manager Administration function provides the ability for authorized users to create, delete, and maintain user accounts and UNIX groups, as well as to define *profiles*, which provide users with easy access to the executables and icons they need to perform their duties. (Profiles provide a mechanism by which a security administrator can group sets of users, often by their job responsibilities, to appropriate applications.) Refer to the *DII Security Manager Administrator's Guide (Solaris 2.5.1)* for more information about security administration functionality.

Runtime Tools

Runtime tools are used to support the segment installation process. The following runtime tools are included on the DII COE 3.2.0.0 kernel tape. All of the tools can be run from the command line, and some can be run from other code using published Application Programmer Interfaces (APIs). The COEInstaller tool can also be run from the System Administration pull-down menu. Refer to the *DII COE Programming Guide (Solaris 2.5.1)* and the *DII COE API Reference Guide (Solaris 2.5.1)* for more information about these tools and their functionality.

- C **COEAskUser** Version 1.0.0.8—Displays a message to the user and expects the user to choose one of two buttons in response. The COEAskUser tool can be called from anywhere.
- C **COEFindSeg** Version 1.0.0.8—Returns information about a requested segment.
- C **COEInstaller** Version 1.0.0.11—Displays a list of segments that may be installed from tape, disk, or other electronic media. The COEInstaller tool can be run from the command line, as well as from the System Administration pull-down menu.
- C **COEInstError** Version 1.0.0.8—Displays an error message to the user. It can be run from the command line, but it is most often called from within a `PreInstall`, `PostInstall`, or `DEINSTALL` script.
- C **COEMsg** Version 1.0.0.8—Displays a message to the user from within a `PreInstall`, `PostInstall`, or `DEINSTALL` script.
- C **COEPrompt** Version 1.0.0.8—Displays a message to the user and expects the user to enter a response from within a `PreInstall`, `PostInstall`, or `DEINSTALL` script.
- C **COEPromptPasswd** Version 1.0.0.8—Displays a message to the user and waits for the user to enter a password. It can be run from the command line, but it is most often called from within a `PreInstall` or `PostInstall` script.
- C **COEUpdateHome** Version 1.0.0.6—Updates the home environment within a script file to point to where a segment actually was installed.

COTS Software

The following COTS software helps to provide the foundation of the DII COE software environment:

- Ⓒ Common Desktop Environment (CDE)
- Ⓒ Motif Version 1.2.4
- Ⓒ X Windows Version X11R5

GOTS Software

The following GOTS software also helps to provide the foundation of the DII COE software environment. Refer to the *DII COE System Administrator's Guide (Solaris 2.5.1)* and the *DII COE Security Manager's Guide (Solaris 2.5.1)* for more information about GOTS software.

- Ⓒ **CSELCK (Deadman)** Version 1.0.0.2 is used to provide a screen lock capability as a security feature.
- Ⓒ **CSECON (Console Window)** Version 1.0.0.2 is used to provide a secure console window for displaying output written to `stdout`.
- Ⓒ **CSEXDM (X Display Manager)** Version 1.1.0.2 provides a secure login screen.
- Ⓒ **CSEPAS (Password)** Version 1.0.0.2 allows a user to change his or her own password and allows the security administrator to change other users' passwords.
- Ⓒ **Accounts and Profiles Subsystem** is used to add, modify, and delete local and global user accounts, profiles, and groups.

1.1 DII COE Enhancements

The DII COE Version 3.2.0.0 Kernel is intended to provide the following enhancements:

- Ⓒ Printing services enhancements, including network printer management, network print queue management, printer driver support, and remote printing.
- Ⓒ COE Installer enhancements to support installation of distributions.
- Ⓒ COEInstError modifications to work as follows: When an error is returned within a PostInstall or DEINSTALL script, processing of the script finishes and returns an error status of -1 to the tool being run (that is, COEInstaller, TestInstall, or TestRemove). The tool will then abort installation or deinstallation of the segment.
- Ⓒ Accounts & Profiles has been redesigned to provide a more efficient user interface.

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2. Referenced Documents

The following documents are referenced in this Version Description Document (VDD):

- Ⓒ DII.3200.Sol251.IG-1, *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.2.0.0 Kernel Installation Guide (Solaris 2.5.1)*, July 25, 1997
- Ⓒ DII.3200.Sol251.AG-1, *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.2.0.0 System Administrator's Guide (Solaris 2.5.1)*, July 25, 1997
- Ⓒ DII.3200.Sol251.SMG-1, *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.2.0.0 Security Manager's Guide (Solaris 2.5.1)*, July 25, 1997
- Ⓒ DII.3200.Sol251.PG-1, *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.2.0.0 Programming Guide (Solaris 2.5.1)*, July 25, 1997
- Ⓒ DII.3200.Sol251.RG-1, *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.2.0.0 Application Programmer Interface (API) Reference Guide (Solaris 2.5.1)*, July 25, 1997
- Ⓒ DII COE I&RTS:Rev 3.0, *Defense Information Infrastructure (DII) Common Operating Environment (COE) Integration and Runtime Specification Version 3.0*, January 1997.

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3. Version Description

3.1 Inventory of Materials Released

- C Magnetic media: Two 8mm tapes consisting of a relative tar of the DII COE Kernel, Version 3.2.0.0 (Solaris 2.5.1).
- C Soft-copy Documentation: One 3.5" floppy diskette (WordPerfect 6.0 for Windows format) containing the *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.2.0.0 Version Description Document for the Kernel (Solaris 2.5.1)*, Document Control No. DII.3200.Sol251.Kernel.VDD-1, July 25, 1997.
- C Hard-copy Documentation: Two hard copies of the aforementioned VDD.

3.2 Software Changes

3.2.1 DII COE Kernel Software Changes

Refer to the following table for a list of software changes for the DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1). The software changes are listed in order of INRI Number.

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Software Changes	
Total Software Changes: [14]	
INRI Number:	RTO00000150
Agency Number:	D60162
Short Description:	The system does not recognize that an option has closed when the Motif button is used to close a window.
Long Description:	When using the Motif button in the upper-left-hand corner to close a window, the option appears grayed out in the system menu bar and is not accessible until the Close All option is selected or until the user logs out and logs back in.
INRI Number:	RTO00000556
Agency Number:	D60249
Short Description:	The EDIT HOSTS window accepts a new machine name with an invalid IP address.
Long Description:	The EDIT HOSTS window accepts a new machine name with an invalid IP address.

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00000591
Agency Number:	D60262
Short Description: Printer Type field is blank.	
Long Description: The Printer Select > Printer Info option leaves the Print Type field blank even though this information is filled in from SAM or AdminTool.	
INRI Number:	RTO00000611
Agency Number:	D60268
Short Description: Entries in the Status columns in the Printer Selector window and Print Queue Manager window do not update.	
Long Description: Entries in the Status columns in the Printer Selector window and Print Queue Manager window do not update. When printing a job, the entries in the Status columns state "Idle" and do not update to state that the printer is in use.	
INRI Number:	RTO00000638
Agency Number:	D60278
Short Description: Double-clicking on a print job closes the window and selects that printer as the default.	
Long Description: In the Printer Info window (Printer option>Printer Select option>Printer Info button), double-clicking on a print job closes the window and selects that printer as the default.	
INRI Number:	RTO00001058
Agency Number:	D60348
Short Description: Disk Manager unmounts both partitions on disk when one partition is selected.	
Long Description: One disk was partitioned into two drives at installation time (home2 and home3). When the first partition (home2) was unmounted and the system was rebooted, both partitions (home2 and home3) were unmounted.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00001234
Agency Number:	D70261
Short Description: The COEInstaller installs a patch created by an older version VerifySeg but not a patch created by a newer version of VerifySeg.	
Long Description: Different versions of VerifySeg cause identical patch segments to have opposite results when installing, in that one segment installs and the other segment fails installation. When loading two patches that were identical except for the following differences, the COEInstaller installs the patch created by the older version VerifySeg but not the patch created by the newer version of VerifySeg: (1) Validated (two different versions of VerifySeg were used), (2) \$CPU (one specified ALL and the other specified SPARC), and (3) ReleaseNotes (should not be a problem). Further testing shows that a segment validated with an older version of VerifySeg installs, whereas the same segment validated with a newer version does not install.	
INRI Number:	RTO00001494
Agency Number:	D70034
Short Description: The system does not offer the NEWFS capability.	
Long Description: The system does not offer the NEWFS capability. The option was selectable in UB 2.2.0.5 but was never implemented. The option can be selected, but a warning window appears inconsistently with the NEWFS capability.	
INRI Number:	RTO00001648
Agency Number:	D70393
Short Description: FTP is unavailable to user accounts.	
Long Description: FTP from an IPA host machine to its server machine failed (the FTP used a valid user account and password for its server machine). (NOTE: the FTP is needed to copy image files from the IPA server to a local server.) The FTPD checks that the specified account has a standard shell returned by GetUserShell. According to the man page, this routine returns a pointer to the first legal user shell defined in /etc/shells. If /etc/shells does not exist (and it does not), then GetUserShell returns the following standard system shells: /sbin/sh, /usr/bin/rsh, /usr/bin/ksh, /usr/bin/rksh, /usr/bin/csh, and /usr/bin/keysh. Since /bin/csh is not in this set (and this is the shell specified in /etc/passwd for the user account created by secman), then FTPD rejects the FTP request. Need for a change: Either create an /etc/shells file with /bin/csh as an entry or change the standard shell for user accounts to be /usr/bin/csh (one of the standard system shells returned by GetUserShell).	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00001749
Agency Number:	D70019
Short Description: [ALT][CTRL][1] allows the user to switch to default behavior.	
Long Description: GSPR D70019 is open on the Solaris (Pri-1). The user can press [ALT][CTRL][1] to switch to default behavior. The operator then can use the right pop-up menu to open a terminal emulator window. (RTO-1496 was delivered for HP and same fix needs to occur on the Solaris.)	
INRI Number:	RTO00001831
Agency Number:	D70558
Short Description: When removing NIS from a client via the Network/NIS menu, the /etc/nns witch.conf is not updated to remove the NIS+ references.	
Long Description: When removing NIS from a client via the Network/NIS menu, the /etc/nns witch.conf is not updated to remove the NIS+ references.	
INRI Number:	RTO00001832
Agency Number:	D70484
Short Description: NIS+ Server initialization menu selection.	
Long Description: The script called by the NIS Server menu has several problems that make it useless to GCCS: 1) It launches the NIS+ Server in YP compatibility mode, which negates the security inherent in NIS+. YP compatibility is only necessary if AHMS SAT terminals or HPs must be supported. YP compatibility should be a selectable option. (CR) 2) The nispopulate uses the files in /etc, except for password and shadow. An option should be provided to allow you to specify the location of the files with which you wish to populate the NIS+ database. There are several reasons for this: (CR) a. If the NIS+ Server is supporting HPs using NIS, the services files must be in the HP services file, not the SUN services file located in /etc b. If you wish to populate the NIS+ database using the dumped files from a previous NIS+ database (e.g., dumping the NIS+ database on a GCCS 2.2 system to be used to create NIS+ database in GCCS 3.0 System) c. If the NIS+ server has a problem and must be reinitialized using the daily dumps of the NIS+ database. 3) The nispopulate is done during a reboot. This makes it extremely difficult to troubleshoot if problems are encountered. (CR) Items 1-3 are SCP's. Item 4 is a GSPR. This GSPR will be split up into separate GSPRs: 4) The following command is being performed at the end of the nispopulate: /usr/bin/nischmod n+r passwd.org_dir. This was a work-around that was necessary in Solaris 2.3. It is not necessary in Solaris 2.5.1 and has security implications if done. (PR)	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00001834
Agency Number:	D70421
Short Description: Receive a CoeInstaller segmentation fault when specifying a partial version in the [Requires] descriptor.	
Long Description: A sample segment with a version number of 1.0.0.3 is loaded in the system. Its name is "Segment One" and its prefix is "One". A second segment states its dependency on the first in the (Requires) section of the seginfo file as shown: Segment One: One:/h/One:1.0 Attempting to load Segment Two results in segmentation fault. On a Solaris System (v3.0.0.3) without Kernel Patch 2, Segment Two will load from tape with the warning: CanInstall: ERROR, Bad Version Field:1.0, use format x.x.x.x Segment Two will not load from network; receive the warning "The required segment not found in disk." According to the I&RTS Rev 3.0, Section 3.1.1, Segment Version Numbers. Segment A may indicate that it requires Segment B, version 2.3 indicating that any maintenance release of Version 2.3 (e.g., 2.3.2.0, 2.3.1.2) is acceptable.	
INRI Number:	RTO00001836
Agency Number:	D70348
Short Description: Directory /h needs 777 permissions.	
Long Description: /h needs 777 permissions. The directory /h has 775 permissions. Owner is root and group is COE. A segment in /h needs to be able to write to its own directory without being root or COE group. Work Around: As root, chmod 777 /h.	

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4. Installation Instructions

Refer to the *DII COE Kernel Installation Guide (Solaris 2.5.1)* for instructions on installing the DII COE kernel.

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5. Known Problems and Errors

5.1 DII COE Kernel Known Problems and Errors

Refer to the following table for a list of known problems and errors for the DII COE Version 3.2.0.0 Developer's Toolkit (Solaris 2.5.1). The known problems and errors are listed in order of INRI Number.

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
Total Known Problems and Errors: [67]	
INRI Number:	RTO00001236
Agency Number:	None.
Short Description: COEInstaller merges former TOC listings with current TOC listings.	
Long Description: With the Installer window listing the contents of a tape formerly in the drive, load a tape without closing the Installer window and click on the Read Contents button. The new display merges the former TOC listing with the current TOC listing. Two symptoms that indicated this problem were: (1) No scroll bar was available in the Select Software to Install panel of window even though the entire listing could not be viewed, and (2) some segments were listed twice. This problem is intermittent but repeatable.	
INRI Number:	RTO00001426
Agency Number:	None.
Short Description: Disk space override defaults to 80 percent instead of the last disk space setting.	
Long Description: Disk space override defaults to 80 percent after the disk space allocation setting has been changed. Once the user changes the disk space limit from the default 80 percent and exits the Override Disk Space Allocation window, the disk space appears to change in the Installer window. However, when the operator returns to the Override Disk Space Allocation window, the selection reverts back to the default 80 percent. The selection should default to the last setting.	
INRI Number:	RTO00001625
Agency Number:	None.
Short Description: The DII/COE/RunTime/Installer/PrivInc/Installer.h file has the #endif in the wrong place for #ifndef _INSTALLER_H line.	
Long Description: The DII/COE/RunTime/Installer/PrivInc/Installer.h file has the #endif in the wrong place for #ifndef _INSTALLER_H line. It should be at the end of the file.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001671
Agency Number:	None.
Short Description: No error messages are displayed when a segment with a \$HOME_DIR directive fails to install.	
Long Description: No error messages are displayed when a segment with a \$HOME_DIR directive fails to install. The Update Security Database window appears and then the Installer, but the segment selected for installation does not appear in the Currently Installed Segments panel. The user must access the Installation Log to learn of the failure. The workaround is to access the Installation Log.	
INRI Number:	RTO00001673
Agency Number:	None.
Short Description: When installing a patch segment onto the Network Installation Server, a confusing message appears.	
Long Description: When installing a patch segment onto the Network Installation Server, the following message appears in the Installation Log, although the patch installs successfully: "(E) _____ Could not get distribution file /h/data/local/SysAdm/distrib" The workaround is to proceed with the installation.	
INRI Number:	RTO00001674
Agency Number:	None.
Short Description: Many "Working" windows are empty.	
Long Description: Many "Working" windows are empty. (The title bar says "Working", but no message appears in the window.)	
INRI Number:	RTO00001676
Agency Number:	None.
Short Description: When a patch installation fails, the Installation Status window remains up.	
Long Description: When a patch installation fails, the Installation Status window remains up displaying the status bar hung up at "1" and citing a PostInstall failure. These status windows usually appear and disappear without any user interaction. Under these circumstances, the user must click on the Cancel button to close the window manually. The workaround is to close the window manually.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001680
Agency Number:	None.
Short Description: Printer icon is not actually selected but appears highlighted in window.	
Long Description: Printers will appear to be selected (highlighted) but are not actually selected at all. The user will select a pull-down menu option thinking that the specific printer is highlighted, but a message will appear instructing the user to select a printer. The workaround is to reselect the printer icon.	
INRI Number:	RTO00001699
Agency Number:	None.
Short Description: Segment Installation Server window's "Actual" disk space is incorrect.	
Long Description: The Segment Installation Server window's "Actual" disk space is incorrect. For example, the "Actual" should be 339.01MB, since "df -k" shows 3471431 KB available (i.e., 339.01 MB when divided by 1024) . Instead, the "Actual" shows 338.68 MB. Note: the Installer window is correct.	
INRI Number:	RTO00001705
Agency Number:	None.
Short Description: COEInstaller does not display release notes for a distribution.	
Long Description: COEInstaller does not display the release notes for a Distribution. Instead, it displays the following error message: Bundles (Configurations) may not be selected The release notes are incorporated into the distribution by the ConfigDef tool.	
INRI Number:	RTO00001709
Agency Number:	None.
Short Description: Bundle/Config does not show any classification markings.	
Long Description: Creation of a Bundle or a Config does not result in any classification being displayed for the bundle when it is viewed in the Installer. Bundle should be labeled with a classification equal to that of the highest level of the included segments.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001715
Agency Number:	None.
Short Description: Install Log shows error message "Tape Extraction Error" when the /h disk is full.	
Long Description: Install Log shows error message "Tape Extraction Error" when the /h disk is full. This error message is unclear and suggests that the tape itself or tape drive may be problematic. The message should state that the disk is full. Work-around: If the user has an alternate disk, then he must select that alternate disk and then install to it. The Installer does not automatically highlight the alternate disk for him.	
INRI Number:	RTO00001720
Agency Number:	None.
Short Description: DISK MANAGER > EXPORTFS option failing when NO Answered to Permanent Mount QUESTION.	
Long Description: When the user attempts to perform an EXPORTFS option on a machine with Solaris, the QUESTION: "Do you want to permanently export the filesystem /h?" is generated and the User can answer either Yes or No. However, unless the user answers YES, the requested filesystem does not become exported, even temporarily. COMMENT: The QUESTION appears to be asking if a temporary export, much like the MOUNT NEW question that will result in a mount only until such time as a reboot is performed, is desired. However, due to functionality, the QUESTION seems to be acting more like a confirmation request??.	
INRI Number:	RTO00001726
Agency Number:	None.
Short Description: If the user selects a segment from an erroneously merged TOC listing, COEInstaller will hang on finding that segment on tape.	
Long Description: When STR RTO-1236 occurs (i.e., COEInstaller merges former TOC listings with current TOC listings), the user can select a segment from the former listing and attempt an install. When this occurs, the COEInstaller will hang on finding that segment on tape. The COEInstaller should have some way to error out when the segment cannot be found on tape and provide such a warning back to the user. (Better yet, we should fix STR RTO-1236.) If the CCB does not accept this STR, then please add this result to STR RTO-1236.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors**INRI Number:** RTO00001746**Agency Number:** None.**Short Description:**

Segment Installer window's "Available" disk space can become corrupted, allowing the user to completely fill up a disk .

Long Description:

Segment Installer window's "Available" disk space can become corrupted, allowing the user to completely fill up a disk (regardless of Disk Override or Disk Reserve setting) when the user selects segments that would exceed available disk space. For example, when the window first opens, the "Available" space is 25.89 MB, which is correct (as calculated by subtracting the "Reserved" space from the "Actual" and as compared to the "df -k" entries). If the user then clicks on a segment that is larger (e.g., 27.69 MB) than the "Available" space of 25.89 MB, the Installer window returns an appropriate warning message and the "Available" space is unchanged. If the user then clicks on that same segment again to deselect it for installation, the Installer adds that segment's required disk space from the "Available" figure, (even though it was never subtracted from "Available" when previously selected, since it would take up too much space). Thus, the new "Available" total is 53.58 MB. The user can then go back and reselect the segment that was too large (27.69 MB) and install it, thus progressing beyond the chosen 80% capacity and even completely filling the disk. Work-around: IF the user realizes that the "Available" space has become corrupted, he can click the Reserved Space button in the Installer window and then use the "Clear and Set to Default (80%)" option.

INRI Number: RTO00001747**Agency Number:** None.**Short Description:**

AdmMgr /etc/services entry still added to system. Port no longer in use.

Long Description:

The /etc/services still reflects an entry for the AdmMgr, but the AdmMgr is no longer using this file. Recommend cleaning up the system to only include services that are actually intended to be used.

INRI Number: RTO00001750**Agency Number:** None.**Short Description:**

Some sa windows stay open switching from sa to sso profile, but sso windows close when switching from sso to sa.

Long Description:

When switching from a new sa-based profile to a new sso-based profile, the system admin windows for System Time and Installer remain open after the switch. In contrast, when switching from an sso-based profile to an sa-based profile, all sso windows close.

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001753
Agency Number:	None.
Short Description: DII 3.2 VDD needs to indicate software changes related to profile selection and profile locking.	
Long Description: The DII 3.2 VDD needs to indicate the following software changes (it should be noted that the VDD from JPL does not list these modifications): The profile selector is always run on login (without the GUI interface) and the selector always checks the lock status of a profile. If the user wishes to change the selected profiles, then he must do so from the Profile Selector on the CDE bar after logging in.	
INRI Number:	RTO00001761
Agency Number:	None.
Short Description: Modify the inconsistencies between "Ok" and "OK" in different printing windows.	
Long Description: All windows have consistent "Ok" buttons associated with them with the exception of the Delete Printer confirmation window which has an "OK" button label. Modify them to be consistent.	
INRI Number:	RTO00001762
Agency Number:	None.
Short Description: Incorrect error messages are displayed while installing patch segments.	
Long Description: The following errors were presented in the Installation Log while using the Segment Installer to install patch segments: (E) COEProcessHardware: Incompatible \$CPU (E) Incompatible hardware type for segment located at /h/data/local/SysAdm/TOC/... The affected segments are listed as having installed successfully, whereas the patch segments are listed as encountering failures during installation due to incorrect CPU. However, the entire segment is listed under /h, so the error messages are incorrect. NOTE: These segments have if/def statements in them, and SPARC and SOL are listed appropriately within them. (I believe that this issue may be related to the use of if/def statements, as segments with keywords referencing "ALL" do not display the same messages.)	
INRI Number:	RTO00001770
Agency Number:	None.
Short Description: Modify the actual window titles to be consistent with system PDM.	
Long Description: The PDM from the system menu bar lists Printer Manager and Printer Administrator as options. When the windows come up however, they show titles of Print Manager and Print Administrator. Modify the window titles to be consistent with the system PDM.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001771
Agency Number:	None.
Short Description: Modify column headings to be consistent with one another.	
Long Description: In the Print Selector window, the number of jobs within a queue is specified as "# of Jobs" but in the Print Manager window, it is referenced as "Jobs in Queue". Modify these column headings to be consistent by renaming both of them "Jobs in Queue".	
INRI Number:	RTO00001772
Agency Number:	None.
Short Description: Portion of the Job Information window text field is slightly out of view.	
Long Description: The information listed in the Job Information window is slightly to the right; therefore, the end of the text field is slightly out of view. Either extend the window or shift the left margin more to the left side.	
INRI Number:	RTO00001774
Agency Number:	None.
Short Description: COESegInstall experiences a segmentation fault if -h is used.	
Long Description: COESegInstall experiences a segmentation fault if -h is used. The actual command line entry was as follows: COESegInstall -h Workaround: Ensure that the tool uses the following command line entry: COESegInstall -p /h/DII_DEV/SampleSegments ECHO the path to the segment is absolute.	
INRI Number:	RTO00001775
Agency Number:	None.
Short Description: SSOProfiles experiences a segmentation fault if the variable used is USER_HOME=/.	
Long Description: SSOProfiles experience a segmentation fault if the environment is not set to be consistent with the environment defined for secman. This variable is set automatically when secman user account is used. Valid commands for this tool are as follows: SSOProfiles -menu "SA Default" local SSOProfiles -permSATest local SSOProfiles -menu "SA Default" local Workaround: Ensure tool is run from a secman login. This will ensure all environment variables are set.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001783
Agency Number:	None.
Short Description: COEInstaller accepting invalid parameter option.	
Long Description: From the command line typed "COEInstaller -BB", expected to receive the Help text for the option. Instead, the COEInstaller ran. Expected to receive either "(F)----- Unrecognized command: --bb", which is generated when MakeInstall is run with an invalid option, or the Help text that assists the user in identifying the correct and valid parameters.	
INRI Number:	RTO00001785
Agency Number:	None.
Short Description: Installation of Patch segment succeeded despite Log stating failure.	
Long Description: When installing patch segments, patch segments that fail from the PostInstall actually show up in the Currently Installed section of the Segment Installer. If Postinstall fails, the segment should fail. For example, install Test Segments BRAVO and BRAVO.P1 at the same time but received notice during the install that BRAVO.P1 failed due to PostInstall failure. However, when the installer was redisplayed, the BRAVO.P1 patch was listed as installed. Due to an entry in the PostInstall that attempted to create an already existing directory the PostInstall correctly failed and should NOT have been listed as installed. WORKAROUND: None	
INRI Number:	RTO00001787
Agency Number:	None.
Short Description: Installer exiting on Segment cancellation.	
Long Description: Began loading a segment, then decided to select CANCEL. When the CANCEL button was selected in the INSTALLER STATUS window, the user was prompted 'Are you sure...'. and YES was selected. However, the Installer was not displayed. Option was again selectable from the Menu. Previously, selecting CANCEL did end the segment installation, but the installer was again displayed.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001788
Agency Number:	None.
Short Description: Installer hanging on installation of segment with [NETWORK] \$SERVERS entry.	
Long Description: Created a segment that contained the descriptor [NETWORK] with a \$SERVERS entry. Attempted to Install the segment, but the installer got to the STATUS window and did not proceed further. Observation of TOP output showed that the installer and the Status window were using a combined maximum CPU. Ran TestInstall on the same segment and the user is prompted with: Is this Machine the Server Platform for "<\$SERVERS ENTRY>"?: The Installer is not generating a COEAskUser or COEPrompt type window to query the user.	
INRI Number:	RTO00001792
Agency Number:	None.
Short Description: Segment Installation server unable to load heterogeneous segments.	
Long Description: Solaris segment Installation server is unable to load HP segments and vice versa. Previous versions of the Installer (i.e., GCCS) were capable of loading opposite segment types.	
INRI Number:	RTO00001795
Agency Number:	None.
Short Description: An error message should replace the vague message currently displayed for deleted printers.	
Long Description: Deleting a printer that has already been deleted on another system within the domain displays a message stating that no information is available for <printer name>. Instead, a message should be displayed that clarifies the error for the user.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001803
Agency Number:	None.
Short Description: Users command line access granted without 'login:' prompt.	
Long Description: Whenever a user has access to the File Manager, he has access to a command line prompt. In order to get the prompt, follow these steps; a) Bring up File Manager, select View and select the VIEW HIDDEN OBJECTS option. b) Double click on the ".dt" folder then double click on the "sessions" folder. c) User is currently displayed 3 shell scripts (RunMenuExec.csh, sessionetc, and sessionexit). If the user double clicks on any one of these, the "Action:Run" window is presented. d) Select the OK button in the Action:Run window. e) The user is now presented with a 'Run' window and from the "Window" menu can select "NEW", which generates a new dtterm, where instead of a 'login:' prompt there is the command line prompt. This option is currently available to both the sysadmin and secman logins, but presumably available to any user that has the File Manager option and available 'shell' scripts within the home directory. NOTE: 'shell' scripts are not usual dot files but scripts that are actually executables. Additionally, since the New File and Change Permissions options both exist, a knowledgeable user can create his own script which can generate an Xterm window without the LOGIN prompt.	
INRI Number:	RTO00001809
Agency Number:	None.
Short Description: Redirect command line output is not specific.	
Long Description: Remote-Redirect: Performing any redirect action displays the same message: "Redirector action completed, status = 0". This message does not specify which action was taken, so the user gets no specific feedback. Workaround: none.	
INRI Number:	RTO00001816
Agency Number:	None.
Short Description: Installer losing track of CONFIG/BUNDLE segment selections.	
Long Description: Installed a CONFIG that included an Aggregate (ONE) and JMPS for CMP. After installation was complete, selected the CONFIG in the top portion of the INSTALLER and deselected JMPS for CMP. Deselected the CONFIG, then reselected it and JMPS for CMP was still deselected. However, when the DEINSTALL button was selected, the "Do you really want to remove the segment?" reflected both JMPS for CMP and ONE. Previous selections are not being properly cleared when a Config or a Bundle is opened and closed. WORKAROUND: Exit and re-start Installer.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001818
Agency Number:	None.
Short Description: Installer processing occurring very slowly.	
Long Description: The latest version(s) of the COEInstaller have become increasingly slow. The actual selection of the Menu option takes more than 15 seconds before the actual Installer window is displayed. Likewise, selecting an Installed segment and selecting the RELEASE NOTES button also takes approximately 15 seconds before a window appears. If the user is impatient and reselects the RELEASE NOTES button, the window outline will be painted on the screen but the interior will be blank for another 15 seconds; then the text displays.	
INRI Number:	RTO00001835
Agency Number:	None.
Short Description: If the user cancels out of an installation process (i.e., a specific segment load), the Installer window exits unexpectedly.	
Long Description: If the user cancels out of an installation process (i.e., a specific segment load), the Installer window exits unexpectedly. The window should not exit, but return with the TOC still available/read.	
INRI Number:	RTO00001849
Agency Number:	None.
Short Description: When the /h disk is full, Installer does not proceed to an alternative disk (if one is available).	
Long Description: When the /h disk is full, the Installer does not proceed to an alternative disk (if one is available). The Installer should automatically highlight the alternative disk (in the Available disks section of the window) when /h becomes full. Work-around: If the user has an alternate disk, then he must select that alternate disk and then install to it. The Installer does not automatically highlight the alternate disk for him.	
INRI Number:	RTO00001852
Agency Number:	None.
Short Description: Global user accounts are removed when NIS is removed from the server and then re-initialized.	
Long Description: Global user accounts are removed when NIS is removed from the server and then NIS is re-initialized. Global user accounts should remain intact (although not viewable from the Security Manager's User Catalog) after NIS is unconfigured and should then be available again once NIS is reconfigured. Work-around: None. Security Administrator has to recreate all of the global accounts.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001853
Agency Number:	None.
Short Description: After adding an NIS client that has not yet been initialized, the NIS master system becomes extremely slow.	
Long Description: After adding an NIS client that has not yet been initialized, the NIS master system becomes extremely slow. A process status shows that rpc.nisd is consuming much of the CPU time (over 25 minutes). Logins, for example, may take over 1.5 minutes to completely log in and display DII_Apps.	
INRI Number:	RTO00001854
Agency Number:	None.
Short Description: The Edit Profile window shows all permissions for given menu options (Disk Manager, Edit Local Hosts, Printer).	
Long Description: The Edit Profile window contains unnecessary information in the Permissions section. All permissions are showing up for the given menu options (Disk Manager, Edit Local Hosts, Printer) above the Permissions EDIT button. This information makes the window much larger than necessary and may also confuse the operator. Work-around: This problem does not affect the Permissions functionality. Permissions for Disk Manager, Edit Local Hosts, and Printer can still be set.	
INRI Number:	RTO00001860
Agency Number:	None.
Short Description: Instability with SA_Default.	
Long Description: Instability with SA_Default. After logging in as sysadmin, from within the icon window there is a brief period of flickering, then all of the icons disappear, momentarily leaving only the Create Action icon. Seconds later, icons appear to return to normal. This event occurs even after an outdated executable from another contractor has been manually removed.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors**INRI Number:** RTO00001869**Agency Number:** None.**Short Description:**

Sometimes icons will not launch from either a default or new local account.

Long Description:

Sometimes icons will not launch from either a default or new local account. For example: Created a new account that was assigned the SSO Default profile. At the initial login, the profile icons worked in the new account; however, on subsequent logins, the SSO Default icons would not launch. This problem has also been seen with secman and sysadmin logins. Other times, problem seen in which icons for a profile will be launchable within a user login session (with no profile switching/merging performed) and suddenly that profile's icons will not launch. This problem has been seen with both secman/SSO_Default and with new local users. Work-around: User must log out and log back in. Usually logging back in, even as the same user, will address the issue.

INRI Number: RTO00001871**Agency Number:** None.**Short Description:**

Use of sysadmin login and SA_Default results in no SA Default menu items and SA Default icon launch failure after segment load.

Long Description:

Logging in as sysadmin and using SA_Default profile results in no SA Default menu items and inability to launch SA Default icons after several segment installs and deinstalls. Either some segments loaded on the system or some combination of install/deinstall actions was able to corrupt the sysadmin user or SA Default profile such that it is no longer usable. No installations or deinstallations should be allowed to totally corrupt sysadmin and SA Default in this manner. Note that several test segments have been installed on the system without any apparent error (JMPS, DATAL, ECHO, BRAVO, INDIA0, INDIA1). Installation of Test20, though, failed due to a PostInstall error and did not install. After these installs, JMPS, DATAL, ECHO, BRAVO, INDIA0, and INDIA1 were all deinstalled. Then BRAVO, BRAVOP1, Test20, and Test20P3 installations were attempted, with only BRAVO installing successfully. Despite the Test20 PostInstall error, however, after logging out of sysadmin and rebooting, Test20 and BRAVO items are the only pull-down menu options available upon logging back into sysadmin. It appears that installation and/or deinstallation of one of the test segments is somehow corrupting the sysadmin files. Work-around: None known. Any profiles based on SA Default will not work.

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001876
Agency Number:	None.
Short Description: COEMenus erroneously appending menu file entries.	
Long Description: Installed a segment (BRAVO) that cited SA_Default.main as the menu to affect. However, the actual menu name is SAMenus.main. Regardless, the file SA_Default.main was actually created in the ../Profiles/SA_Default/Menus directory in addition to the already existing SAMenus.main. The SA_Default.main contains an APPEND entry and is supposed to add a menu under the Software pull down menu. Instead, an additional menu (SOFTWARE) was created in addition to the already present SOFTWARE menu and the menu option added by the BRAVO segment was listed under this SOFTWARE pull-down. EXPECTED the COEMenus to recognize the APPEND command and actually append the new menu item under the already existing menu pull-down. NOTE: STR 1415 was previously DE'ed for what appears to be the same problem.	
INRI Number:	RTO00001877
Agency Number:	None.
Short Description: Profile Selector sometimes hangs.	
Long Description: Profile Selector window hung after logging into an account and encountering a situation in which icons will not launch. It specifically hangs after STR RTO-1869 occurs and the user attempts to deselect a selected profile.	
INRI Number:	RTO00001878
Agency Number:	None.
Short Description: COEPromptPasswd always generates 0 as the \$status exit value.	
Long Description: When the COEPromptPasswd tool is called and the user incorrectly enters password and confirmation 3 times the tool exits as expected. However, the \$status variable is still set to 0. Since the option input has not been successfully provided the tool should be generating an error \$status of something other than 0. WORKAROUND: Calling program can key off the fact that the value returned is "0" for the number of characters input and infer that an error occurred.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001879
Agency Number:	None.
Short Description: COEPromptPasswd accepting input of less than minimum value and greater than maximum value.	
Long Description: The COEPromptPasswd is accepting input of less than the minimal value specified in the I&RTS. Per the I&RTS pg C-14, the minimum password length should be 6 characters and the maximum should be 14 characters. Currently the tool accepts any minimum and a maximum of 40 characters.	
INRI Number:	RTO00001881
Agency Number:	None.
Short Description: Disk Manager does not display any mounted filesystems whenever it is started and a mounted filesystem cannot be reached.	
Long Description: The Disk Manager does not display any mounted filesystems whenever it is started and a file system that it has mounted on another system is not available (i.e., when the remote system is powered off or the file system has been removed). Instead, the Disk Manager window displays only: "NFS FAILED FOR SERVER: CONNECTION DOWN." First, this message should be more specific so that the offending filesystem can be easily identified. Secondly, the Disk Manager should continue to display information for those filesystems that can still be reached. Work-around: The only way to be able to view pertinent information in the Disk Manager when this problem occurs is to either wait for the other system to come back up or to manually vi the /etc/vfstab file to remove the offending filesystem. Note: This STR is related to but not a duplicate of RTO-1564, which covers the same situation for the SGI, except that on the SGI the Disk Manager actually hangs and does not come up at all.	
INRI Number:	RTO00001889
Agency Number:	None.
Short Description: User unable to halt selection of NIS Remove option.	
Long Description: Upon selection of the Sysadmin option NETWORK > SERVERS > SET NIS > REMOVE NIS, the user is prompted "Do you wish to disable and remove NIS?". However, selection of the NO option results in the notification that NIS has been removed and the user should reboot. Selection of the NO option should halt the removal of the NIS and no reboot should be necessary. Note: NIS does not actually get removed, it is only the error message that is erroneous. User is informed upon selection of the Add NIS option that it is already configured.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001892
Agency Number:	None.
Short Description: Add a working window in Printer Domain Configuration.	
Long Description: Add a working window set to appear between the Enter a Response window and the Informational Message window. There is an intentional 20 second delay in which the user may not know how long to wait for confirmation and additional instructions.	
INRI Number:	RTO00001896
Agency Number:	None.
Short Description: Source Host field on the banner page of print jobs is inconsistent between platforms.	
Long Description: When printing remotely using redirect functionality, the Source Host field on the banner page is inconsistent between platforms. The print job originating from HP displayed the IP address whereas the SOL displayed the name and domain suffix.	
INRI Number:	RTO00001900
Agency Number:	None.
Short Description: Errors encountered on a parallel printer ceases printer functionality.	
Long Description: When errors are encountered on a parallel printer, the error feedback causes problems such that the printer is no longer functional. Turning the printer on and off, rebooting the machines and deleting the printer altogether and adding it again using the GUI still does not correct the problem. (Suspect area: Device file, but still researching)	
INRI Number:	RTO00001901
Agency Number:	None.
Short Description: Running lpstat returns data that is old and outdated.	
Long Description: Running lpstat returns data that is old and outdated. Checking for status is intended to locate status of current printers, not ones that have long since been deleted. Having all of the extraneous information available to the user is cumbersome and confusing, especially since printer names will be re-used in the field for ease of use. This is a documentation STR. Documentation needs to state that when running multiple domains, the default domain should not be used. If these instructions are not followed, once a new domain is configured, the operator should go into Admin Tool and SAM and delete all of the existing printers.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001907
Agency Number:	None.
Short Description: COEInstaller does not establish links when installing over an existing patch if the "new" patch is loaded on another disk.	
Long Description: The COEInstaller does not establish links when installing over an existing patch if the "new" patch is loaded on another disk, nor does it actually remove the previously existing segment. If the user installs a patch that is already loaded on the system, the proper confirmation for continuing the installation appears; however, when the patch is installed, it actually does not replace the existing patch under /h/{affected segment}. Instead, the previously installed patch remains under /h/{affected segment} and the newly installed patch is installed under /home3/{affected segment}, with no links back to /h. The COEInstaller still sees the patch under /h as the one installed.	
INRI Number:	RTO00001909
Agency Number:	None.
Short Description: When installing multiple segments, the segment installation process halts when one segment fails to install.	
Long Description: When installing using the Network source, the installation process halts when one segment fails to install. For example, select two segments for installation, the first of which you know will fail to install. The Installer window returns without attempting to install the second segment. For example, install SampleSW.P1 and SampleDataSegment. When SampleSW.P1 fails, the data segment install is not even attempted.	
INRI Number:	RTO00001911
Agency Number:	None.
Short Description: Installer Message Box not displayed indicating segment installation failure when segment fails requires check.	
Long Description: TheCOEInstaller fails to display a message box indicating the failure of a segment to install when the segment does not pass the Requires Version number check. (i.e. Segment Requires a segment with version number 4.2.0.0 to be install, however the required segment currently installed has a version number of 3.2.0.0) Workaround: View the Installation Log upon completion of the Installation Process.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001914
Agency Number:	None.
Short Description: Change Machine Id not consistently updating fields.	
Long Description: Upon selection of the NETWORK > CHANGE MACHINE ID option, placed the cursor focus in the Machine Name field and typed in a 'new' name then selected the <TAB> key to advance to the next field. Supplied a new IP Address then selected OK and the request to REBOOT was received and the YES option was selected. Upon reboot the machine still had the OLD Hostname but now had the manually entered IP Address. If the user input in the Change Machine ID NEW HOSTNAME is performed but the <RETURN> key is used to advance the cursor focus, the NEW HOST NAME field reverts back to the original hostname. This MMI is inconsistent, both the TAB and the RETURN key should act the same. Due to RTO1203 'The Change Machine ID menu option does not work properly.' both the TAB and the RETURN keys should both accept the user input for the New Host Name and this entry should be maintained after Reboot.	
INRI Number:	RTO00001916
Agency Number:	None.
Short Description: Cannot redirect print data to a remote printer.	
Long Description: Cannot redirect print data to a remote printer.	
INRI Number:	RTO00001917
Agency Number:	None.
Short Description: Cannot print to a remote printer using the lp command.	
Long Description: Cannot print to a remote printer using the lp command.	
INRI Number:	RTO00001918
Agency Number:	None.
Short Description: Drag and drop functionality doesn't work on a printer icon configured onto CDE.	
Long Description: Cannot print to a printer through CDE, although printers can be added and selected as defaults on the CDE icon. Drag and drop functionality works on the Default printer icon, but not on a printer icon configured onto CDE.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001919
Agency Number:	None.
Short Description: Redirected print jobs print on system default printers and not on user defaults printers.	
Long Description: Redirected print jobs print on system default printers and not on user defaults printers as intended.	
INRI Number:	RTO00001920
Agency Number:	None.
Short Description: User receives error bogus mail message when printing with lp command.	
Long Description: When sending local print jobs using the lp command, the user receives a system email stating that the system cannot open the file selected for printing, however, the file is misspelled with a "c" in front of the file name. Example: /etc/hosts becomes /etc/costs and /tmp/hello becomes /tmp/cello. Because of the misspelling, the system claims that it cannot locate the file. Simultaneously the file is printing to the printer so unless the user checks the mail account, the user will not know of the error. The following mail message appears: Job title was /etc/hosts submitted from <machine name> at date and time of print job encountered error while printing on printer <machine name> Reason for failure: can't open /etc/costs rm: Command not found.	
INRI Number:	RTO00001922
Agency Number:	None.
Short Description: Change Machine ID and Edit Local Hosts accepts invalid information when DNS configured.	
Long Description: If the system administrator uses the Change Machine ID and selects a name from the pick list that was incorrectly added via the Edit Local Hosts option, after the machine reboots the user will not be able to log in IF DNS is configured. In the scenario tested, a machine name of "testprt" was assigned to IP address 199.165.147.27. However, the DNS server had that IP Address assigned to "tstprt". WORKAROUND: System Administrator must change the machine back using native Unix functions.	
INRI Number:	RTO00001923
Agency Number:	None.
Short Description: Change Machine ID Host Name field not accepting user input with name greater than 7 characters. Options inconsistent.	
Long Description: Attempts to manually type a "New Machine Name" greater than 7 characters is not allowed within the Change Machine Id option. However, if the machine name is listed in the pop-up list, the entry is allowed. This 'restriction' is not consistent with the Edit Local Host option which allows HostName input of 32 characters.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001924
Agency Number:	None.
Short Description: On-line man pages are not included in the Printer segment.	
Long Description: Although man pages exist for COEPrtBanner, COEPrtInstallDriver and COEPrtRemoveDriver, they are not copied into the Printer segment on installation, so they are not available to developers. However, the printed versions are still available in the documentation.	
INRI Number:	RTO00001925
Agency Number:	None.
Short Description: Print job icons are not actually selected.	
Long Description: Print jobs will appear to be selected (highlighted) but are not actually selected at all. The user will select a pull-down menu option thinking that the specific print job is highlighted, but a message will appear instructing the user to select a print job. The workaround is to reselect the print job icon.	
INRI Number:	RTO00001926
Agency Number:	None.
Short Description: COEInstError is not leading to halting of tool processing when run in PreInstall.	
Long Description: COEInstError is not leading to halting of tool processing when run in PreInstall. For example, call COEInstError from within a segment's PreInstall script and then run COEInstaller or TestInstall. Despite the COEInstError, the segment is still installed. Note that COEInstError when run from PostInstall or DEINSTALL does lead to COEInstaller, TestInstall, and TestRemove not installing/deinstalling the segment.	

5.2 DII COE Kernel COTS and GOTS Known Problems and Errors

Refer to the following table for a list of Commercial Off-the-Shelf (COTS) and Government Off-the-Shelf (GOTS) known problems and errors for the DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1). The COTS and GOTS known problems and errors are listed in order of INRI Number.

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) COTS and GOTS Known Problems and Errors
Total Known Problems and Errors: [22]

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) COTS and GOTS Known Problems and Errors	
INRI Number:	RTO00000084
Agency Number:	None.
Short Description: User can delete the SA Default and SSO Default profiles from the Security Manager program	
Long Description: User can delete the SA Default and SSO Default profiles from the Security Manager program. After deleting the SA Default profile, Security Manager and other SSO programs would not launch. Work-around: None known; user must reload the workstation. (Site must have an SOP to never delete a default account. However, this work-around is not really acceptable since the user should not be allowed to get the system in a state from which recovery would be extremely difficult, as with deleting default accounts.) Note: Impact of deleting the SSO Default profile has not been tested.	
INRI Number:	RTO00000088
Agency Number:	None.
Short Description: Unix Groups Catalog is not dynamic.	
Long Description: With the Unix Groups catalog open, add a new user so that a new user is assigned to one of those listed groups. The Unix Group catalog does not automatically update the appropriate group's User Name column to indicate that the newly added user now belongs to that group. Note: The profiles and user catalogs are updating correctly. Work-around: Select any column header to refresh the display.	
INRI Number:	RTO00000094
Agency Number:	None.
Short Description: Session Manager component only looks for profiles that match the user's scope.	
Long Description: Session Manager component only looks for profiles that match the user's scope. The user only sees selected profiles that match the user's scope. Regardless of the scope, both local and global profiles should be available. Local users should be able to have local and global profiles, and global users should be able to have local or global profiles. For example, when logging into a local account that has both local and global profiles assigned, both local and global profiles are available and can be selected from the Profile Selector. However, even though global profiles are selected, they do not appear under DII_Apps. Work around: None.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) COTS and GOTS Known Problems and Errors	
INRI Number:	RTO00000105
Agency Number:	None.
Short Description: Matrix operations (e.g., View>User by Profile) have been grayed out in the GUI.	
Long Description: Matrix operations (e.g., View>User by Profile, View>User by Unix Group, View>Application by Profile) have been grayed out in the GUI. A persistent memory leak in the shareware libraries prevented the matrix operations from being delivered in this release. The 'cut', 'paste', and 'copy' functions under the Edit menu are intended to support the matrix operations. As such, they have been temporarily grayed out as well.	
INRI Number:	RTO00000107
Agency Number:	None.
Short Description: The initially displayed Default Profile in the New User Dialog does not default to the value in the Security Manager config file	
Long Description: The value initially displayed for the New User Dialog's Default Profile field does NOT default to the value specified in the Security Manager configuration file. Section 3.3 of the Security Manager's Guide from JPL indicates that this file contains the values of the default profiles used when creating local and global account groups. Work-around: None.	
INRI Number:	RTO00000108
Agency Number:	None.
Short Description: Selecting a row in a catalog occasionally highlights the cell rather than the entire row.	
Long Description: Selecting a row in a catalog occasionally highlights the cell rather than the entire row. Work-around: None. The system behaves correctly whether the row or a single cell in the row is highlighted.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) COTS and GOTS Known Problems and Errors	
INRI Number:	RTO00000128
Agency Number:	None.
Short Description: If user deletes account that he is currently using and then exits the session, system does not return to XDM login.	
Long Description: When the user deletes the account that he is currently logged into and then selects EXIT from the CDE bar, the system does not correctly return to the XDM login. On HP, the system is brought down to a console login, from which the user may then login as root with password and reboot the system. On Solaris, the system is brought down to a white, blank screen with no command prompt and from which no actions take affect. Note: After reboot and re-entry into the sysadm and secman default accounts, no obvious problems were noted. Even if by design deleting an account that is in use is OK, such action should not bring the system into the states that are resulting, as described above. Such states not only inconvenience the operator who must reboot in order to regain system operation, but also on Solaris requires a key sequence that is not recommended except in extreme circumstances. To recreate the problem, create a local user account and assigned the SA and SSO Default profiles to that account. Log in as that new user and launch the Security Manager icon. Then select your new/current user account in the User Catalog and select the Delete User option. While the system does prompt for verification, the user is able to delete the current account while it is being used. Once this is done, current session functionality is lost. Then click the EXIT option on the CDE bar. Work-around: On HP, the user must login as root at the console login and provide a password and then reboot the system. On Solaris, the user must [Shift-Stop-A] in order to go into single user mode and then attempt a boot; on Solaris, fsck was required before system would boot back up.	
INRI Number:	RTO00000129
Agency Number:	None.
Short Description: EM_security_manager window resizing provides no additional display area.	
Long Description: When the Security Manager window within the SSO_Default Application Manager is resized, the area providing actual data display does not also resize. Data area should increase to maximum size allowable in resized window or window should not be resizable. User gains no added functionality by attempting resize. If the data field resized, the user could evaluate more of the available data instead of having to utilize the scroll bar.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) COTS and GOTS Known Problems and Errors	
INRI Number:	RTO00000135
Agency Number:	None.
Short Description: View Applications options sighting unclear values in Apps Name and Exec Paths fields.	
Long Description: When selecting the View > Applications option within the Security Manager option, one of the available fields is APPS NAME. The column currently appears to be displaying a compressed (no spaces) version of what is listed in the Apps Label field (the Apps Label is the value supplied in the Icon file for Icon Name). This Apps Name value is incorrect for most of the Apps Name. The other field that also presents unclear data is the Exec Path field. This field currently displays the executable name (as listed in the Icon file) for the associated label but only displays a "Path" in the instances where the Icon file also includes a path. The Exec Path value actually appears to be what was expected in the Apps Name field. Recommend: Remove the Exec Path column from the Application Catalog listing and replace the value currently displayed in the Apps Name field with the Exec Path fieldvalue.	
INRI Number:	RTO00000139
Agency Number:	None.
Short Description: User cannot change the account password in the Modify User Dialog window.	
Long Description: When modifying an account, user cannot change the account password in the Modify User Dialog window. According to Section 5.2.3 of the Security Manager's Guide from JPL, the security administrator should be able to change the password from this window. Work-around: Password must be changed via the Assign Passwords icon.	
INRI Number:	RTO00000140
Agency Number:	None.
Short Description: User cannot change the Group Number when adding or modifying a group.	
Long Description: When adding or modifying a group, user cannot change the Group Number. Attempting to change the default Group Number entry has no effect. According to Section 5.5.2 of the Security Manager's Guide from JPL, the security administrator should be able to override the assigned group number as long as the newly entered number is within the appropriate range for either local or global groups. Per the document, "This allows us to get around the limitation on the number of users that can be assigned to a group." Work-around: None known.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) COTS and GOTS Known Problems and Errors	
INRI Number:	RTO00000141
Agency Number:	None.
Short Description: The group admin not automatically assigned when a security-based profile is assigned to a non-security-based account.	
Long Description: When assigning a security-admin-based profile to an account that is originally a system-admin-based account (i.e., it has a system admin profile as the Default Profile), the system does not automatically assign the admin group to that account. Since security admin profiles require the admin group assignment in order for icons to launch, the admin group should be assigned by the system automatically if a security-based profile is assigned. Work-around: As standard procedure, the Security Administrator must ALWAYS assign a group of admin to any account that will have access to a security-based profile.	
INRI Number:	RTO00000142
Agency Number:	None.
Short Description: The user is not allowed to correct errors in Security Manager windows after clicking OK.	
Long Description: The user is not allowed to correct errors in Security Manager windows after clicking OK. For example, in the New User Dialog window, if no Login Name, Password, or User Name, password is entered, the user receives an error when he clicks OK in the window but is not allowed the opportunity to correct any problems because the window immediately exits. The user must re-enter the window and type all text over again. The window should remain open for correction of problems. The same issue is also true for other Security Manager windows related to profiles and groups. Work-around: Reselect the desired option and re-enter desired text.	
INRI Number:	RTO00000143
Agency Number:	None.
Short Description: Death of UPDATE DBASE option resulted in runaway Installer.	
Long Description: Created a bundle that included a COTS segment, an AcctGrp segment and an Aggregate which contained 5 children. When the Installer completed installing the Update DBase window was displayed but the MOTIF button CLOSE button was used to CLOSE the option but the Installer window never came back. Observation of a TOP output showed that the Installer was using maximum CPU (approx 96% ++). I had to manually kill the Installer option. Reopening the Installer resulted in the segments included in the bundle as being installed but NOT the bundle. Repeating the bundle install and answering "N" to the Update Dbase questions resulted in a successful install.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) COTS and GOTS Known Problems and Errors	
INRI Number:	RTO00000148
Agency Number:	None.
Short Description: User cannot modify a new global group's name.	
Long Description: On a NIS/NIS+ master, user cannot modify a new global group's name either by double-clicking it in the Unix Group Catalog or by selecting the Edit>Modify Unix Group option from the EM_security_manager window. Note that according to Section 5.5.3 of the Security Manager's Guide from JPL, the security administrator should be able to modify the name of a group. Note: Problem will be fixed if Randy Heath's latest nis_dbmod script change is put into the build. Work-around: None known.	
INRI Number:	RTO00000157
Agency Number:	None.
Short Description: In New User Dialog, all information is cleared when user changes scope.	
Long Description: In New User Dialog, all information is cleared when user clicks Global scope. Only Default profile, Groups, and Profiles should clear. When changing user scope, the default profile, assigned groups, and additional profiles must be cleared since they are specific to the scope; however, the Login Name, Password, Password Confirmation, and User Name should remain unchanged since they are not scope-specific. The logical progression in the window is to select the scope after entering the User Name, so clearing this information is very annoying to the user. Work-around: User must know to select the scope first before entering any information in the top of the New User Dialog window.	
INRI Number:	RTO00000164
Agency Number:	None.
Short Description: An incorrect error message appears for a password not meeting minimum password length in New User Dialog.	
Long Description: In the New User Dialog window, when the user enters a password that does not meet the minimum length of 6 characters, an error indicates: "Passwords not matched, please retry." The actual text in the error message is incorrect for this error and should refer to the fact that a password must be at least 6 characters.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) COTS and GOTS Known Problems and Errors	
INRI Number:	RTO00000165
Agency Number:	None.
Short Description: New account created and login accepted even though password was never correctly confirmed in New User Dialog.	
Long Description: The New User Dialog window presents a warning if password confirmation does not match the password; however, if the user does not correctly confirm the password but continues to click OK in New User Dialog, the new account is accepted and created (with no further warnings). The password entered in the password field is then the one accepted at login. Work-around: None known. Password confirmation is not required by the current MMI in the New User Dialog window.	
INRI Number:	RTO00000166
Agency Number:	None.
Short Description: On Solaris, only the secman account can successfully assign/deassign groups to global users.	
Long Description: Security admin-based accounts other than secman cannot perform these global actions relating to group assignments to global users: (1) Assign any group (other than that assigned by the system for the default profile) while creating a new global user. (2) Deassign any group from a global user. (3) Modify a global group to assign another user. Note: Problem not seen on an HP master. Work-around: A security administrator must use the secman login in order to maintain group assignments to global users.	
INRI Number:	RTO00000169
Agency Number:	None.
Short Description: If an account is accessed by two users simultaneously, then profile merges on one system occur partially on the other system.	
Long Description: If an account is being accessed by two different users simultaneously, then profile merges on one system occur partially on the other system. They should either occur fully or not at all. Log in to the same global account on two workstations. On workstation #1, merge profiles. Workstation #2 then shows all of the merged profiles as selected in the Profile Selector, yet does not show the newly merged profiles in DII_Apps. No functional repercussions have been noted, but the user will see inconsistent MMI on his workstation. Work-around: When this inconsistency is seen, the user seeing the inconsistency can log out and log back in or deselect and then reselect desired profiles.	

DII COE Version 3.2.0.0 Kernel (Solaris 2.5.1) COTS and GOTS Known Problems and Errors	
INRI Number:	RTO00000170
Agency Number:	None.
Short Description: An hour glass should appear in the Modify User Dialog window while the modify process is occurring.	
Long Description: An hour glass should appear in the Modify User Dialog window while the modify process is occurring. Work-around: User may not realize that processing is occurring, but if he waits, window exits upon completion.	
INRI Number:	RTO00000172
Agency Number:	None.
Short Description: User should not be able to delete system level groups provided by the kernel.	
Long Description: User can delete the system level groups, such as admin and other, from the Security Manager program. Such deletion will render kernel-based accounts requiring the deleted group useless. Work-around: None known.	
INRI Number:	RTO00000173
Agency Number:	None.
Short Description: If a user tries to delete an account that is currently in use, a confirmation window should be displayed.	
Long Description: If a security administrator attempts to delete an account that is currently in use, either by himself or another user, a confirmation window should be displayed.	

6. Release Notes

COE Kernel

1. Installation of the Solaris 2.5.1 Operating System is a *destructive installation* because installation removes any previously installed software. Your disk will be overwritten as part of the installation process and all data will be lost.
2. After a user has three unsuccessful login attempts within a 24-hour period, that user's account will be locked. In order to unlock the account the Security Administrator can run the `Unlock Users` icon or the `root` user can run the following command to unlock the account:

```
/h/COE/Comp/CSE/XDM/bin/CSEXDM_clear_failures <username>
```

Locked users are automatically cleared after 24 hours.

3. When you set up NIS+, you must first ensure DNS is set up.
4. Multi-eye configurations are not supported.
5. Multi-head configurations are supported with one exception. To log onto the second head with a user other than the one logged onto the first head, you must do the following:
 1. Open a terminal emulator window on the first head.
 2. `chmod a+w /tmp/select.display`
6. If you are going to change the machine ID and you have previously set up DNS on your machine, you must make sure your host name and IP address are on your DNS server.
7. When setting the `SEG_DIRS` variable, each path must be separated by colons ":" not spaces.
8. DCE has been removed from the kernel. It can now be installed as a separate segment.
9. The C2 security level (auditing feature) is running automatically at installation time.
10. In order to add global accounts and profiles, C2 must be disabled. Refer to the *DII COE System Administrator's Guide (Solaris 2.5.1)* for information about disabling the C2 auditing feature.
11. When adding global users, `/h/USERS/global` on the master system must be exported with `rw,-anon=0` permissions via the Disk Manager window. The client system then should mount the master's `/h/USERS/global` to its `/h/USERS/global`. Otherwise, a user on a client system cannot log in to a global

account created on the NIS+ master. An error message indicates that the home directory cannot be accessed.

12. When exporting file systems as read/write, do not select the option `RW`. Instead, either clear the `options` field or select the `RW` option and specify a machine name; otherwise, the file system will not be exported.
13. Classifications cannot be assigned to profiles.
14. To change the workstation classification, run the `COESecLevel` tool from the command line. Refer to the *DII COE System Administrator's Guide (Solaris 2.5.1)* for more information about changing workstation security levels.
15. Users cannot print to a specific printer through CDE, although printers can be added and selected as defaults on the CDE icon. Drag and drop functionality works using the Default printer icon, but not with a printer icon configured onto CDE.
16. Users cannot print to a remote printer using the `lp` command; however, users can print to a remote printer using the GUI.
17. Users cannot disable the banner page for a printout. When attempting to disable banners for `lp`, remote, and local printers, print jobs still print out with banners.

COEInstaller Tool

1. The `AcctGrp` descriptor supports only one entry.
2. The Segment Installation Server and the COEInstaller Network option do not support distribution installations.
3. If the user attempts to install a segment remotely (via the `REMOTE` toggle in the `Select Source` window) and the `sysadmin` account is expired on the machine with the remote tape drive, the installation will fail.
4. If the user selects the `OTHER` toggle from the `Select Source` window, then `/dev/rmt/Xmnb` must be entered as the device instead of `/dev/rmt/Xmn`, where `x` is the device number.
5. The `Installation Log` only logs segment processing for the last segment(s) selected from the current installation.
6. No help options are available from the graphical user interface (GUI).
7. Disk space is not checked on `/h/data/global` when installing a global data segment.

8. NIS+ and Domain Name Service (DNS) servers are not updated when processing the `Network` descriptor.
9. The `$HOME_DIR` keyword in the `Requires` descriptor is not processed.
10. If the `COEInstaller` is run from the command line, the `DISPLAY` environment variable must be set to `unix:0.0`.
11. In order for the `NETWORK` option from the `Installer` window to work, the `/h` directory must be exported from the server and `/h/data/global` must be mounted on the client. If the `/h/data/global` directory is not mounted, then the `Disk Manager` must be used to mount the `/h/data/global` directory. In addition, the machine from which the segments are being installed must be trusted in the target machine's local host file or, if the machine is running DNS, the machine must be in the DNS file.

COEAskUser, COEInstError, COEMsg, COEPrompt, and COEPromptPasswd

1. The `COEAskUser`, `COEInstError`, `COEMsg`, `COEPrompt`, and `COEPromptPasswd` tools support multi-line text. The following example uses the `COEMsg` tool to show how to display text over multiple lines while using the C shell:

```
COEMsg "this is line 1 \  
This is line 2 \  
This is the 3rd line"
```

2. The `COEInstError` process presently does not stop the processing of an installation or deinstallation. It will display an installation error message and return a `-1` status code to the calling process. The calling process (i.e., `PostInstall`) must perform any cleanup to return a failed error `$status` of `-1` to the `COEInstaller`, which can then stop the installation.

COEUpdateHome Tool

1. `COEUpdateHome` must be run from within the directory of the script that the user is trying to update (typically the segment directory).

Tactical Battle Management Core Systems (TBMCS)

1. `COESegInstall` does not support the installation of multiple segments with a single API call. Using the `COESegInstall` API, aggregates, for example, must be installed using multiple API calls. `COESegInstall` must be run once to install the aggregate Parent and must be run separately to install each of the aggregate Children.

2. When using SSOProfiles from the command line, unnecessary error and warning messages may appear. These messages can be disregarded. The return status from SSOProfiles should be used to determine the success or failure of the API.
3. The `DISPLAY` environment variable must be set when running SSOProfiles (that is, `setenv DISPLAY:0.0`).

Accounts and Profiles

1. Local users may now be simultaneously assigned to local and global profiles. Likewise, global users may have both global and local profiles.
2. Global profiles are now tied to the availability of the NFS mount exporting the global profiles, instead of whether or not NIS+ was running. This allows a local user to have a global profile even if global users are not supported.
3. Assigning a user to a default profile now assigns the user to that profile in addition to using the default profile to establish the user's default UNIX GID.
4. Security Manager support for a Safe Profile has been added.
5. Individual profiles can now be tagged as "lockable" or "non-lockable".
6. In order for profile locking to work, the optional COE component, LDAP, must be installed.

7. Solaris 2.5.1 Patch List

7.1 Solaris Patch List

Patch Name	Synopsis
103461-15	Motif 1.2.3 Runtime library patch.
103558-07	SunOS 5.5.1: admintool patch.
103582-10	SunOS 5.5.1: /kernel/drv/tcp patch.
103591-07	SunOS 5.5.1: /kernel/fs/ufs and /usr/lib/fs/ufs/fsck fixes.
103594-09	SunOS 5.5.1: /usr/lib/sendmail fixes.
103600-14	SunOS 5.5.1: nfs, tlmmod and rpcmod patch.
103612-23	SunOS 5.5.1: libc, libnsl, nis_cachemgr and rpc.nisd patch.
103630-06	SunOS 5.5.1: ip ifconfig arp udp icmp patch.
103640-08	SunOS 5.5.1: kernel patch.
103663-07	SunOS 5.5.1: libresolv, in.named, named-xfer, nslookup and test.
103680-01	SunOS 5.5.1: nsd/nsd_nischeck rebuild for BIND 4.9.3.
103686-02	SunOS 5.5.1: rpc.nisd_resolv patch.
103696-02	SunOS 5.5.1: /sbin/su and /usr/bin/su patch.
103817-01	SunOS 5.5.1: rdist suffers from buffer overflow.
103866-02	SunOS 5.5.1: BCP (binary compatibility) patch.
103934-04	SunOS 5.5.1: kernel/drv/isp patch.
103959-03	SunOS 5.5.1: lp patch.
104010-01	SunOS 5.5.1: VolMgt Patch.
104266-01	SunOS 5.5.1: inetd patch.
104317-01	SunOS 5.5.1: nfsd patch.
104331-02	SunOS 5.5.1: rpcbind patch.
104334-01	SunOS 5.5.1: lockd patch.
104433-03	SunOS 5.5.1: pam security patch.
104613-01	SunOS 5.5.1: /usr/lib/newsyslog patch.
104654-02	SunOS 5.5.1: automountd patch.
104692-01	SunOS 5.5.1: usr/sbin/in.talkd patch.

Patch Name	Synopsis
104708-02	SunOS 5.5.1:ssd, pln, soc, ssaadm, and ssafirmware patch
104735-02	SunOS 5.5.1: platform/sun4m/kernel/drv/sx patch.
104736-01	SunOS 5.5.1: usr/bin/csh patch.
104776-01	SunOS 5.5.1: libvolmgt patch.
104893-01	SunOS 5.5.1: kernel/sys/c2audit patch